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ORIGINALLY FILED

Atty. Dkt. No. 034827-1401

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Doug Hui Huang

Title: COMPOSITIONS AND METHODS FOR
TIGR GENOTYPING ASSAYS

Appl. No.: 10/017,870

Filing Date: December 12, 2001

Examiner: Unassigned

Art Unit: 1645

CERTIFICATE OF MAILING

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March 11, 2002
(Date of Deposit)

PRELIMINARY AMENDMENT

Commissioner for Patents
Box Missing Parts
Washington, D.C. 20231

Sir:

This communication is responsive to the Notice to File Missing Parts dated January 11, 2002, concerning the above-referenced patent application.

Please replace paragraph 24 of the specification with the following paragraph. A marked-up version of this paragraph is attached hereto as Appendix A:

[0024] In the following diagram of a primer extension reaction, four different ddNTPs, each distinctively labeled, are present in the reaction mixture as designated by dd(A*1)TP, dd(T*2)TP, dd(C*3)TP and dd(G*4)TP, where *1, *2, *3 and *4 represent different labels. In the diagram, the polymorphism in the nucleic acid being tested is indicated by an underlined nucleotide, and the extension primer sequence is italicized. Only one ddNTP, ddTTP, can be added to the 3' end of the extension primer, because thymine (T) is the only base that pairs with adenosine (A). The addition of the dd(T*2)TP to the 3' of the primer prevents any further primer extension because it is a dideoxy, chain-terminating ddNTP. Thus, the only primer that is 3' extended is labeled with label *2. Detection of the signal from label *2 indicates that the A polymorphism is present in the sample: